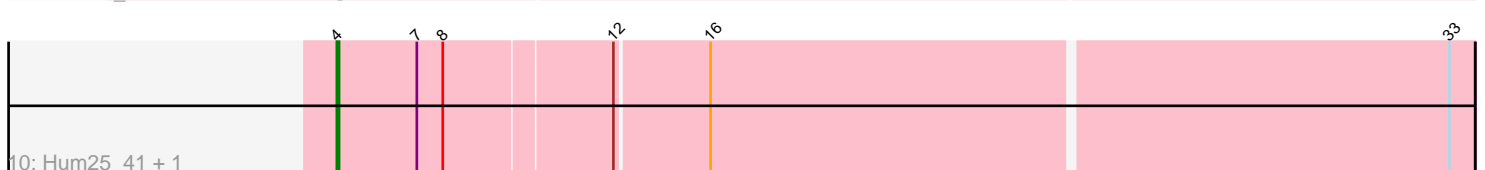
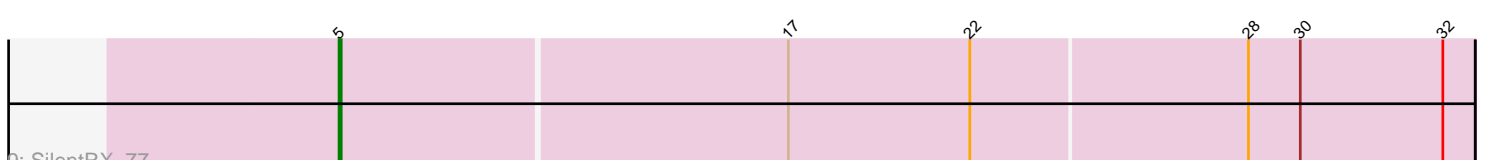
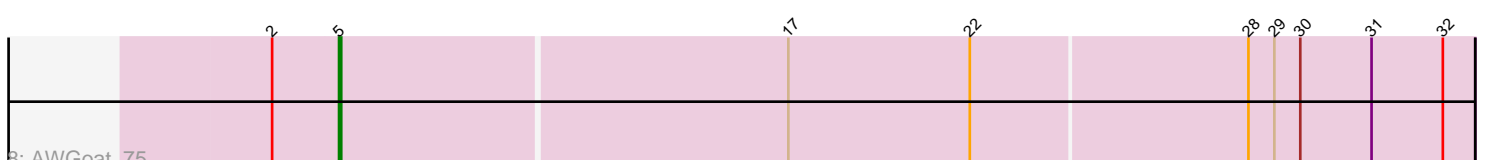
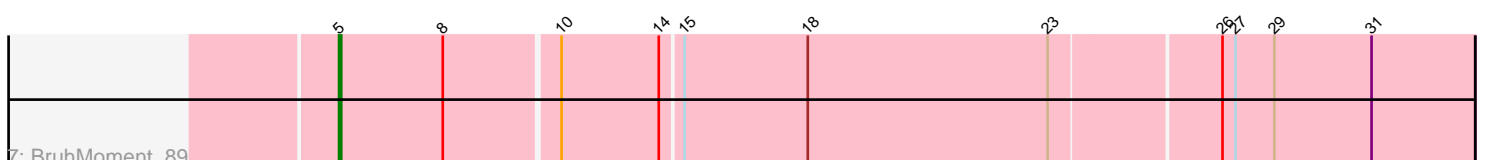
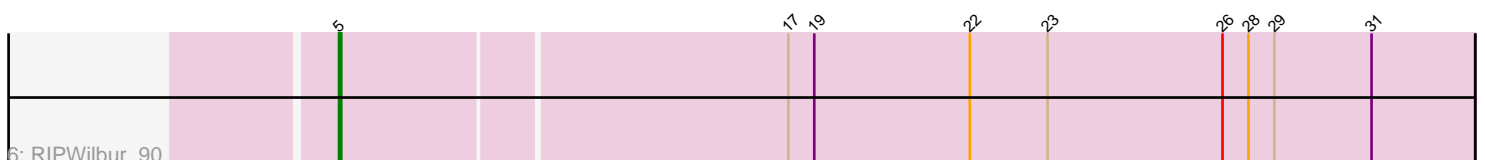
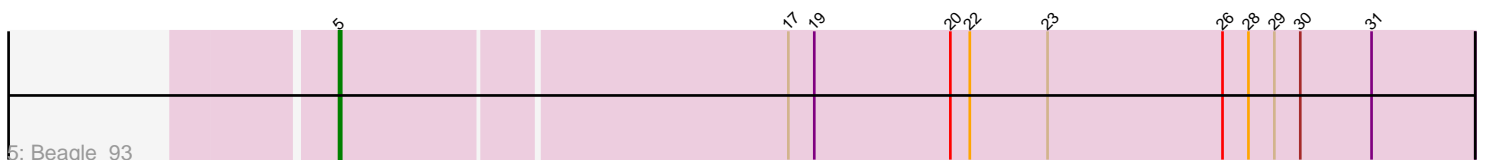
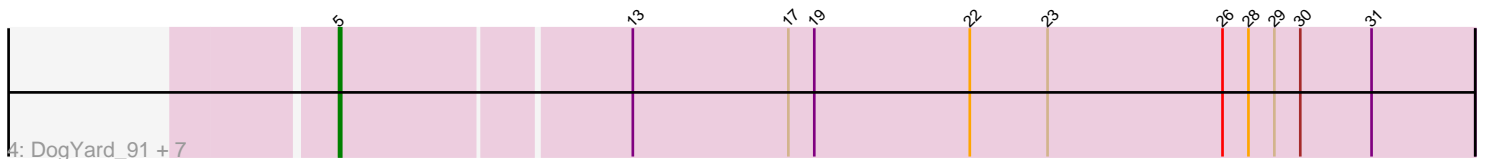
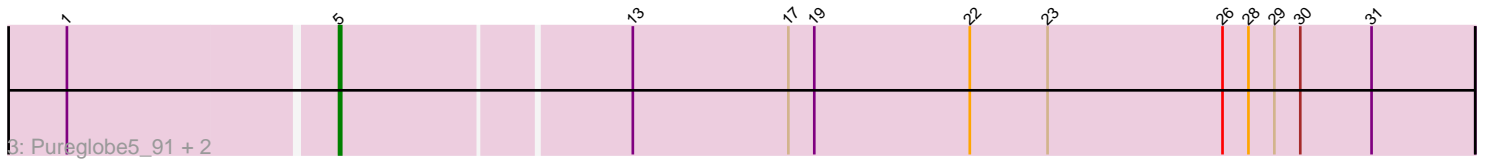
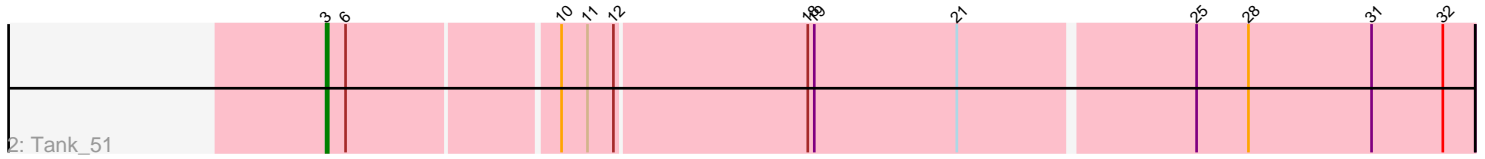
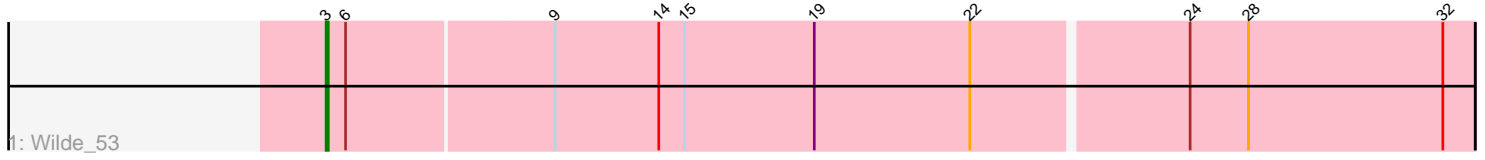


# Pham 312038



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 312038 Report

This analysis was run 06/27/26 on database version 652.

Pham number 312038 has 20 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Wilde\_53
- Track 2 : Tank\_51
- Track 3 : Pureglobe5\_91, Hive\_88, Popstraw\_87
- Track 4 : DogYard\_91, PhuzzTulsa\_89, Odyssey395\_91, NyleyClemson\_90, MellowYellow\_92, Pointis\_88, BetaFish\_91, Kubulix\_91
- Track 5 : Beagle\_93
- Track 6 : RIPWilbur\_90
- Track 7 : BruhMoment\_89
- Track 8 : AWGoat\_75
- Track 9 : SilentRX\_77
- Track 10 : Hum25\_41, Merpity\_41

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 5, it was called in 12 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AWGoat\_75, Beagle\_93, BetaFish\_91, BruhMoment\_89, DogYard\_91, Hive\_88, Kubulix\_91, MellowYellow\_92, NyleyClemson\_90, Odyssey395\_91, PhuzzTulsa\_89, Pointis\_88, Popstraw\_87, Pureglobe5\_91, RIPWilbur\_90, SilentRX\_77,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- Hum25\_41, Merpity\_41, Tank\_51, Wilde\_53,

### **Summary by start number:**

Start 3:

- Found in 2 of 20 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Tank\_51 (AP1), Wilde\_53 (AP1),

Start 4:

- Found in 2 of 20 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hum25\_41 (FQ1), Merpity\_41 (FQ1),

Start 5:

- Found in 16 of 20 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 12 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat\_75 (AP4), Beagle\_93 (AP2), BetaFish\_91 (AP2), BruhMoment\_89 (AP3), DogYard\_91 (AP2), Hive\_88 (AP2), Kubulix\_91 (AP2), MellowYellow\_92 (AP2), NyleyClemson\_90 (AP2), Odyssey395\_91 (AP2), PhuzzTulsa\_89 (AP2), Pointis\_88 (AP2), Popstraw\_87 (AP2), Pureglobe5\_91 (AP2), RIPWilbur\_90 (AP2), SilentRX\_77 (AP4),

### **Summary by clusters:**

There are 5 clusters represented in this pham: AP2, AP1, FQ1, AP4, AP3,

Info for manual annotations of cluster AP1:

- Start number 3 was manually annotated 2 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 5 was manually annotated 9 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 5 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 5 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster FQ1:

- Start number 4 was manually annotated 1 time for cluster FQ1.

### **Gene Information:**

Gene: AWGoat\_75 Start: 52496, Stop: 51978, Start Num: 5

Candidate Starts for AWGoat\_75:

(2, 52526), (Start: 5 @52496 has 12 MA's), (17, 52292), (22, 52208), (28, 52082), (29, 52070), (30, 52058), (31, 52025), (32, 51992),

Gene: Beagle\_93 Start: 53393, Stop: 52875, Start Num: 5

Candidate Starts for Beagle\_93:

(Start: 5 @53393 has 12 MA's), (17, 53192), (19, 53180), (20, 53117), (22, 53108), (23, 53072), (26, 52991), (28, 52979), (29, 52967), (30, 52955), (31, 52922),

Gene: BetaFish\_91 Start: 53608, Stop: 53090, Start Num: 5

Candidate Starts for BetaFish\_91:

(Start: 5 @53608 has 12 MA's), (13, 53479), (17, 53407), (19, 53395), (22, 53323), (23, 53287), (26, 53206), (28, 53194), (29, 53182), (30, 53170), (31, 53137),

Gene: BruhMoment\_89 Start: 57612, Stop: 57100, Start Num: 5

Candidate Starts for BruhMoment\_89:

(Start: 5 @57612 has 12 MA's), (8, 57564), (10, 57513), (14, 57468), (15, 57459), (18, 57402), (23, 57291), (26, 57216), (27, 57210), (29, 57192), (31, 57147),

Gene: DogYard\_91 Start: 53098, Stop: 52580, Start Num: 5

Candidate Starts for DogYard\_91:

(Start: 5 @53098 has 12 MA's), (13, 52969), (17, 52897), (19, 52885), (22, 52813), (23, 52777), (26, 52696), (28, 52684), (29, 52672), (30, 52660), (31, 52627),

Gene: Hive\_88 Start: 53078, Stop: 52560, Start Num: 5

Candidate Starts for Hive\_88:

(1, 53198), (Start: 5 @53078 has 12 MA's), (13, 52949), (17, 52877), (19, 52865), (22, 52793), (23, 52757), (26, 52676), (28, 52664), (29, 52652), (30, 52640), (31, 52607),

Gene: Hum25\_41 Start: 26666, Stop: 27178, Start Num: 4

Candidate Starts for Hum25\_41:

(Start: 4 @26666 has 1 MA's), (7, 26702), (8, 26714), (12, 26789), (16, 26831), (33, 27167),

Gene: Kubulix\_91 Start: 52765, Stop: 52247, Start Num: 5

Candidate Starts for Kubulix\_91:

(Start: 5 @52765 has 12 MA's), (13, 52636), (17, 52564), (19, 52552), (22, 52480), (23, 52444), (26, 52363), (28, 52351), (29, 52339), (30, 52327), (31, 52294),

Gene: MellowYellow\_92 Start: 53010, Stop: 52492, Start Num: 5

Candidate Starts for MellowYellow\_92:

(Start: 5 @53010 has 12 MA's), (13, 52881), (17, 52809), (19, 52797), (22, 52725), (23, 52689), (26, 52608), (28, 52596), (29, 52584), (30, 52572), (31, 52539),

Gene: Merpity\_41 Start: 27119, Stop: 27631, Start Num: 4

Candidate Starts for Merpity\_41:

(Start: 4 @27119 has 1 MA's), (7, 27155), (8, 27167), (12, 27242), (16, 27284), (33, 27620),

Gene: NyleyClemson\_90 Start: 52628, Stop: 52110, Start Num: 5

Candidate Starts for NyleyClemson\_90:

(Start: 5 @52628 has 12 MA's), (13, 52499), (17, 52427), (19, 52415), (22, 52343), (23, 52307), (26, 52226), (28, 52214), (29, 52202), (30, 52190), (31, 52157),

Gene: Odyssey395\_91 Start: 52787, Stop: 52269, Start Num: 5

Candidate Starts for Odyssey395\_91:

(Start: 5 @52787 has 12 MA's), (13, 52658), (17, 52586), (19, 52574), (22, 52502), (23, 52466), (26, 52385), (28, 52373), (29, 52361), (30, 52349), (31, 52316),

Gene: PhuzzTulsa\_89 Start: 53235, Stop: 52717, Start Num: 5

Candidate Starts for PhuzzTulsa\_89:

(Start: 5 @53235 has 12 MA's), (13, 53106), (17, 53034), (19, 53022), (22, 52950), (23, 52914), (26, 52833), (28, 52821), (29, 52809), (30, 52797), (31, 52764),

Gene: Pointis\_88 Start: 52683, Stop: 52165, Start Num: 5

Candidate Starts for Pointis\_88:

(Start: 5 @52683 has 12 MA's), (13, 52554), (17, 52482), (19, 52470), (22, 52398), (23, 52362), (26, 52281), (28, 52269), (29, 52257), (30, 52245), (31, 52212),

Gene: Popstraw\_87 Start: 52857, Stop: 52339, Start Num: 5

Candidate Starts for Popstraw\_87:

(1, 52977), (Start: 5 @52857 has 12 MA's), (13, 52728), (17, 52656), (19, 52644), (22, 52572), (23, 52536), (26, 52455), (28, 52443), (29, 52431), (30, 52419), (31, 52386),

Gene: Pureglobe5\_91 Start: 53339, Stop: 52821, Start Num: 5

Candidate Starts for Pureglobe5\_91:

(1, 53459), (Start: 5 @53339 has 12 MA's), (13, 53210), (17, 53138), (19, 53126), (22, 53054), (23, 53018), (26, 52937), (28, 52925), (29, 52913), (30, 52901), (31, 52868),

Gene: RIPWilbur\_90 Start: 52662, Stop: 52144, Start Num: 5

Candidate Starts for RIPWilbur\_90:

(Start: 5 @52662 has 12 MA's), (17, 52461), (19, 52449), (22, 52377), (23, 52341), (26, 52260), (28, 52248), (29, 52236), (31, 52191),

Gene: SilentRX\_77 Start: 53377, Stop: 52859, Start Num: 5

Candidate Starts for SilentRX\_77:

(Start: 5 @53377 has 12 MA's), (17, 53173), (22, 53089), (28, 52963), (30, 52939), (32, 52873),

Gene: Tank\_51 Start: 40630, Stop: 40115, Start Num: 3

Candidate Starts for Tank\_51:

(Start: 3 @40630 has 2 MA's), (6, 40621), (10, 40528), (11, 40516), (12, 40504), (18, 40417), (19, 40414), (21, 40348), (25, 40243), (28, 40219), (31, 40162), (32, 40129),

Gene: Wilde\_53 Start: 40929, Stop: 40408, Start Num: 3

Candidate Starts for Wilde\_53:

(Start: 3 @40929 has 2 MA's), (6, 40920), (9, 40827), (14, 40779), (15, 40767), (19, 40707), (22, 40635), (24, 40539), (28, 40512), (32, 40422),